10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-RSPO3 Reference Antibody (rosmantuzumab)

Recombinant Antibody
Catalog # APR10411

Specification

Anti-RSPO3 Reference Antibody (rosmantuzumab) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	Q9BXY4
Reactivity	**Cynomolgus, Cynomolgus, Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**150 KDa**

Anti-RSPO3 Reference Antibody (rosmantuzumab) - Additional Information

Target/Specificity
RSPO3

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-RSPO3 Reference Antibody (rosmantuzumab) - Protein Information

Name RSPO3

Synonyms PWTSR, THSD2

Function
Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors, which acts as a key regulator of angiogenesis. Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. Also regulates the canonical Wnt/beta-catenin-dependent pathway and non- canonical Wnt signaling by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway (PubMed:21727895, PubMed:21909076, PubMed:22615920).

Acts as a key regulator of angiogenesis by controlling vascular stability and pruning: acts by activating the non-canonical Wnt signaling pathway in endothelial cells (By similarity) (PubMed:21727895, PubMed:21909076, PubMed:22615920). Can also amplify Wnt signaling pathway independently of LGR4-6 receptors, possibly by acting as a direct antagonistic ligand to RNF43 and ZNRF3 (PubMed:29769720).

Cellular Location
Secreted {ECO:0000250|UniProtKB:Q2TJ95}.

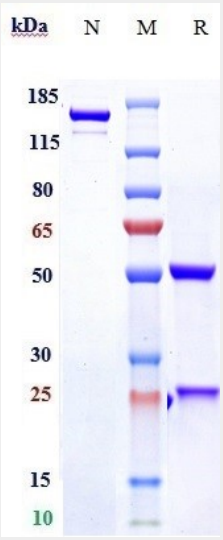
Tissue Location
Ubiquitously expressed. Expressed at higher level in placenta, small intestine, fetal thymus and lymph node (PubMed:12463421). Highly expressed in endothelial cells (PubMed:26766444).

Anti-RSPO3 Reference Antibody (rosmantuzumab) - Protocols

Provided below are standard protocols that you may find useful for product applications.

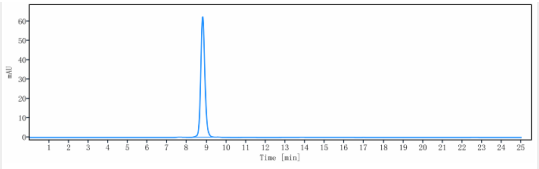
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-RSPO3 Reference Antibody (rosmantuzumab) - Images



Anti-RSPO3 Reference Antibody (rosmantuzumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%

10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



The purity of Anti-RSPO3 Reference Antibody (rosmantuzumab)is more than 100% ,determined by SEC-HPLC.